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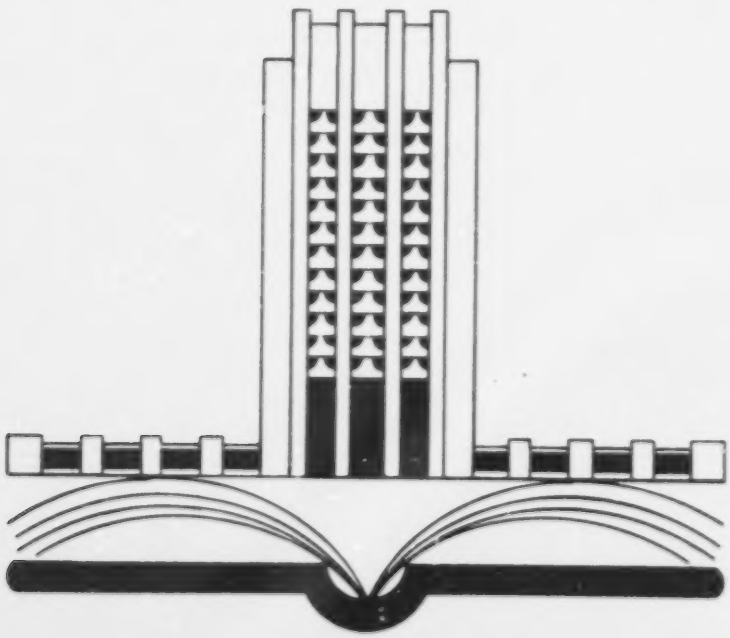

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Improved membrane gas sensor systems for on-line analysis of ethanol and other volatile organic compounds in fermentation media.
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Investigations and results with MWM (Motoren-Werke Mannheim) pilot-ignition ethanol combustion system (Tractor diesel engines, modifications for biomass fuels).
Dietrich, W. ; Anisits, F.~Hiemesch, D. Sao Paulo, Brasil : Instituto de Pesquisas Tecnologicas do Estado de Sao Paulo-IPT, 1980. Proceedings of the IV International Symposium on Alcohol Fuels Technology, Guaruja-SP-Brasil, 5-8 Oct. 1980. v. 1 p. 457-463. Includes references. (NAL Call No.: TP358.I52 1980).

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Bardon, M.F. Sao Paulo, Brasil : Instituto de Pesquisas Tecnologicas do Estado de Sao Paulo-IPT, 1980. Proceedings of the IV International Symposium on Alcohol Fuels Technology, Guaruja-SP-Brasil, 5-8 Oct. 1980. v. 1 p. 387-395. Includes references. (NAL Call No.: TP358.I52 1980).

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Methanol-diesel engine with minimum pilot injection quantity (Equipment for using alternative fuels).
Finsterwalder, G. ; Kuepper, H. Sao Paulo, Brasil : Instituto de Pesquisas Tecnologicas do Estado de Sao Paulo-IPT, 1980. Proceedings of the IV International Symposium on Alcohol Fuels Technology, Guaruja-SP-Brasil, 5-8 Oct. 1980. v. 2 p. 465-470. ill. Includes references. (NAL Call No.: TP358.I52 1980).

0118
Methanol/ethanol/gasoline blends in stratified charge engine vehicles (Assess the performance and exhaust emissions).
Pefley, R.K. ; Adelman, H.G.~Suga, T.~Vann, L.G. Jr.~Wiens, F.J. Sao Paulo, Brasil : Instituto de Pesquisas Tecnologicas do Estado de Sao Paulo-IPT, 1980. Proceedings of the IV International Symposium on Alcohol Fuels Technology, Guaruja-SP-Brasil, 5-8 Oct. 1980. v. 2 p. 701-707. ill. Includes references. (NAL Call No.: TP358.I52 1980).

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Methanol-gasoline blended fuels in West Germany--specification and early field experience (Performance of biomass fuels).
Nierhauve, B. Sao Paulo, Brasil : Instituto de Pesquisas Tecnologicas do Estado de Sao Paulo-IPT, 1980. Proceedings of the IV International Symposium on Alcohol Fuels Technology, Guaruja-SP-Brasil, 5-8 Oct. 1980. v. 1 p. 319-324. ill. Includes references. (NAL Call No.: TP358.I52 1980).

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Methanol gasoline blends in New Zealand (Liquified petroleum gas, and compressed natural gas, methanol, vehicle testing).
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Methanol production based on synthesis gas from coal and biomass.
Reimert, R. Dordrecht : D. Reidel Pub. Co., c1985. Synthetic fuels : lectures of a course held at the Joint Research Centre, Ispra, Italy, May 7-11, 1984 / edited by G.E. Beghi. p. 135-163. ill. Includes references. (NAL Call No.: DNAL TP360.S96).

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Wilson, R. Washington : Office of Public Awareness. EPA Environmental Protection Agency journal. Sept 1984. v. 10 (7). p. 22-23. ill. (NAL Call No.: TD171.U5).

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Methyl and ethyl soybean esters as renewable fuels for diesel engines.
JJASD. Clark, S.J. ; Wagner, L.-Schrock, M.D.-Piennaar, P.G. Champaign, Ill. : The Society. Journal of the American Oil Chemists' Society. Papers from the symposium on Vegetable Oils as Fuel Alternatives, presented at the 74th American Oil Chemists' Society Annual Meeting, Chicago, Illinois, May 8-12, 1983. Oct 1984. v. 61 (10). p. 1632-1638. Includes 6 references. (NAL Call No.: DNAL 307.8 J82).

0125
Microcomputer control of renewable diesel fuel blends and tests (Biomass fuel, mixes of ethanol, soybean oil, tractor tests).
Braun, D.E. ; Stephenson, K.Q. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-1076). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0126
Microemulsions from vegetable oil and aqueous alcohol with 1-butanol surfactant as alternative fuel for diesel engines.
Schwab, A.W. ; Pryde, E.H. Washington, D.C. : The Office. United States patent - United States Patent Office. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231.- Includes abstract. July 2, 1985. (4,526,586). 1 p. ill. Includes 11 references. (NAL Call No.: DNAL NO CALL NO. (PAT)).
Abstract: Hybrid fuel microemulsions are prepared from vegetable oil, a C1-C3 alcohol, water, and 1-butanol as the nonionic surfactant. These fuels are characterized by an acceptable viscosity and compare favorably to No. 2 diesel fuel in terms of engine performance properties.

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Microemulsions from vegetable oil and aqueous with trialkylamine surfactant as alternative fuel for diesel engines.
Schwab, A.W. ; Pryde, E.H. Washington, D.C. : The Office. United States patent - United States Patent Office. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231.- Includes abstract. May 29, 1984. (4,451,267). 1 p. ill. Includes 5 references. (NAL Call No.: DNAL NO CALL NO. (PAT)).

0128
Microemulsions from vegetable oil and lower alcohol with octanol surfactant as alternative fuel for diesel engines.
Schwab, A.W. ; Pryde, E.H. Washington, D.C.? : The Department. United States Department of Agriculture patents. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231. Dec 10, 1985. (4,557,734). 1 p. ill. Includes references. (NAL Call No.: DNAL aT223.V4A4).
Abstract: Hybrid fuel microemulsions are prepared from vegetable oil, methanol or

ethanol, a straight-chain isomer of octanol, and optionally water. The fuels are characterized by a relatively high water tolerance, acceptable viscosity, and performance properties comparable to No. 2 diesel fuel.

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